Location and Survey

ChkPoles Program

by

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ABSTRACT

The MDL Application CHKPOLES will automatically produce a pole data summary for the Roadway Design Unit. The information in the summary comes from two different sources: 1) a design file developed in Photogrammetry Unit and 2) a pole data file put together by Location and Surveys. Output is an ASCII file that consists of pole numbers, owner information, state-plan coordinate, and file in which found. This tool will give an indication as to the efficiency of the entire pole data project.

The application runs under Microstation, but does not requires that GEOPAK also be running.

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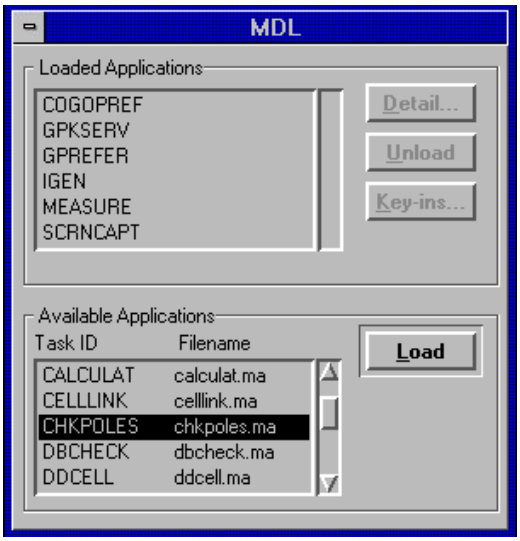
LOADING THE APPLICATION

To load the application for use in your MicroStation session either enter the command "**mdl load chkpoles"** or chose MDL Applications under the USERS pull-down menu in the command window and then start the CHKPOLES application from the list (see Figure 1). If the executable is not the MDLAPPS directory, then you will need to specify the path to the directory in which the application is located.

Once the CHKPOLES application is loaded, the CHKPOLES Dialog Box is created and displayed on the screen.

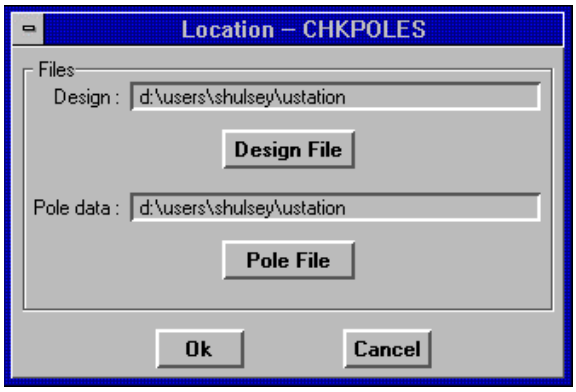
FIGURE 1 : MDL Applications Dialog Box



The CHKPOLES Dialog Box

The CHKPOLES dialog box (see figure 2) is this application's primary dialog box. It is open as long as the application is running. It is moveable as are most other dialog boxes.

FIGURE 2 : CHKPOLES dialog box



The CHKPOLES dialog box consists of the following items:

Text items:

The DESIGN file is the name of the Photogrammetry's design file. This field can be filled in one of two ways. First, the user could simply type the name of the file, including the path. The other way is to use a MDL File Open interface by clicking on the **Design File** push button.

The POLE DATA file is the name of the Location's pole data file. To use a MDL File Open interface as above, clicking on the **Pole File** push button.

Push Buttons: A Push Button activates a command or launches a dialog box by either clicking on it with the mouse or by entering the name of the button in the command line in the MicroStation Command Window or by tabbing to that push button and pressing **ENTER**.

The DESIGN FILE Push Button launches a dialog box, which will "pop up" onto the screen. This dialog box will allow the user to choose the input ".dgn" file through a standardized file menu interface.

The POLE FILE Push Button launches a dialog box, which will "pop up" onto the screen. This dialog box will allow the user to choose the input ".pdf" file through a standardized file menu interface.

The GO Push Button executes the CHKPOLES application.

The CANCEL Push Button is used to quit the program.

From within MicroStation:

Before starting the application, the user should save settings and compress the current design file. Following the instructions on page one (1), the CHKPOLES application should be started and will soon appear on the screen. As previously mentioned, two input files are needed for the pole summary. The user should specify the input files using the procedures described in "MEET THE CHKPOLES APPLICATION."

Once the input parameters have been specified, the user should continue the process by depressing the GO button. The program will then start to setup the scanning process. The design file will be (re)loaded and the search process will proceed. Again, the two input files are 1) a Photogrammetry topo design file and 2) a Location and Survey (L&S) pole file. The program will read the L&S pole file and create a list of poles. The program will then scan the design file for poles. When the pole location process is completed, the program will produce a summary of the number of poles that were found only in the pdf (attribute) file, design file, and in both files (see FIGURE 3). The number that user needs to be concerned with is the number that is associated with the attribute file. This is the number of poles that were in the pdf file minus the number found in both files. If the user is satisfied with the results, they should press the Cancel button. If the user wants to see a more detailed summary, they should press the OK button. The program will then produce report file that contains the following information: Pole Number, Pole Type, Utilities Carried, Owner, Easting, Northing, Remark, and the file in which the pole was found (Pole Data File, Design File, or Both). The report file will have the same filename and path as the pole data file, except the extension will be ".chk" The information in the file will look similar to FIGURE 4. The report will then appear on the screen for further analysis (see FIGURE 5). Once finished viewing the file, the user can open another file by choosing the Open command from the Menu bar or Close the window by choosing Exit. The user can then Exit the program by choosing Cancel from the CHKPOLES dialog box or continue with the next project.

FIGURE 3 : CHKPOLE Summary

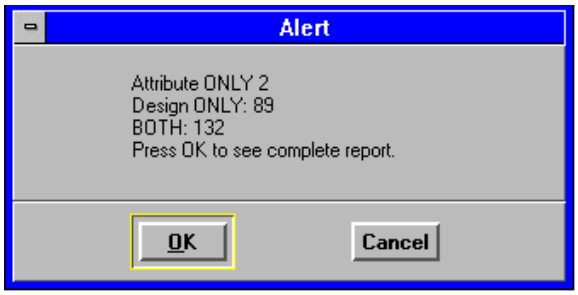


FIGURE 4 : CHKPOLE Report Example

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                        CHECK POLE DATA
PROJECT: 8.1621202    ID NO. R-0952A       COUNTY: FORSYTH

  Pole#, Type,   Util. Carried,    Owner,     Easting,    Northing,     Remark, File
       ,   P ,                ,         ,  501277.846,  261209.167,          , Design
     1,     ,    POWER TEL TV,       DP,       0.000,       0.000,          ,    PDF
     2,   P ,    POWER TEL TV,       DP,  503555.792,  261928.844,          ,   Both
     3,     ,    POWER TEL TV,       DP,       0.000,       0.000,          ,    PDF
     4,   O ,    POWER TEL TV,       LP,  503619.088,  261929.921,          ,   Both
     5,   P ,    POWER TEL TV,       LP,  503648.919,  261935.392,          ,   Both
     6,   O ,    POWER TEL TV,       LP,  503688.755,  261948.336,          ,   Both
     7,   P ,    POWER TEL TV,       LP,  503732.819,  261956.130,          ,   Both
     8,   O ,    POWER TEL TV,       LP,  503755.708,  261974.199,          ,   Both
     9,   P ,    POWER TEL TV,       DP,  503814.292,  261976.608,          ,   Both
    10,   O ,    POWER TEL TV,       LP,  503827.090,  261993.884,          ,   Both
    11,   P ,    POWER TEL TV,       DP,  503877.594,  261985.232,          ,   Both
    12,   O ,    POWER TEL TV,       LP,  503895.397,  262017.974,          ,   Both
    13,   P ,    POWER TEL TV,       DP,  503922.846,  262016.452,          ,   Both
    14,   P ,    POWER TEL TV,       DP,  503958.901,  262040.743,          ,   Both
    15,   O ,    POWER TEL TV,       LP,  503951.531,  262060.928,          ,   Both
    16,   P ,    POWER TEL TV,       DP,  503999.700,  262070.895,          ,   Both
    17,   P ,    POWER TEL TV,       DP,  503995.525,  262083.078,          ,   Both
    18,   O ,    POWER TEL TV,       LP,  504003.667,  262112.617,          ,   Both
    19,   P ,    POWER TEL TV,       DP,  504044.977,  262126.659,          ,   Both
    20,   O ,    POWER TEL TV,       LP,  504059.193,  262159.983,          ,   Both
    21,   P ,    POWER TEL TV,       DP,  504091.721,  262153.908,          ,   Both
    22,   P ,    POWER TEL TV,       DP,  504117.330,  262169.968,          ,   Both
    23,   O ,    POWER TEL TV,        P,  504125.866,  262197.751,          ,   Both
    24,   P ,    POWER TEL TV,       DP,  504158.338,  262195.376,          ,   Both
    25,   C ,    POWER TEL TV,       DP,  504191.252,  262215.562,          ,   Both
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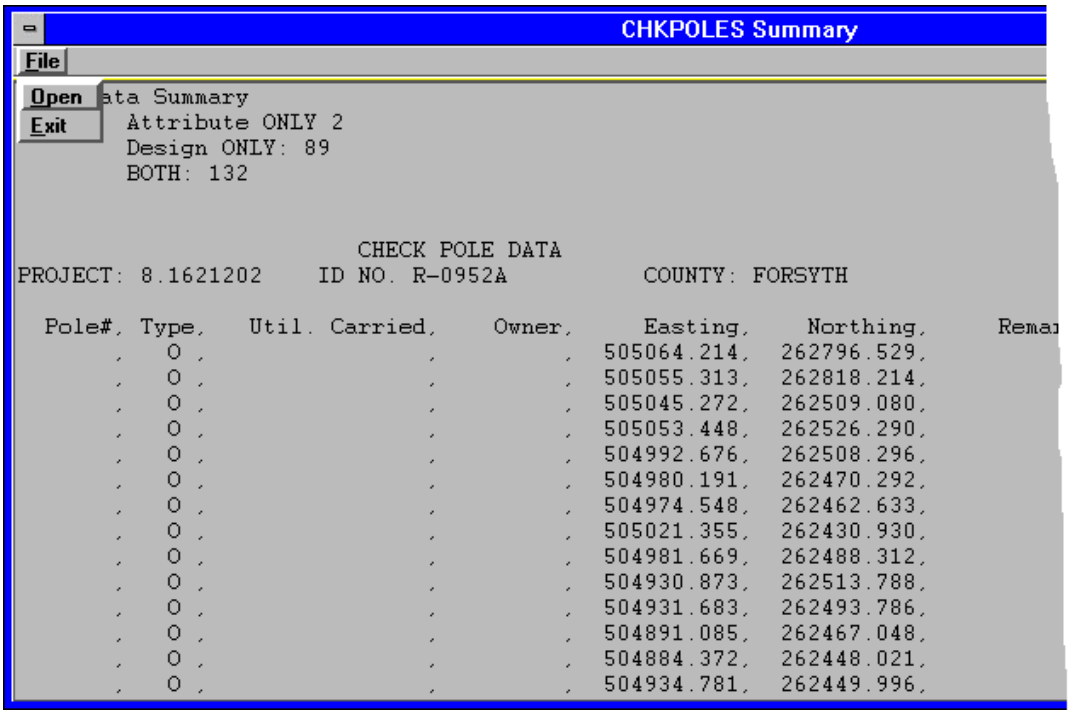
FIGURE 5 : CHKPOLE Report Window



Modifications and Enhancements

970613 - corrected problem with reading an empty offset field.